

Seminar

Drosophila: A powerful model to study wound repair and stem cell regulation

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Drosophila is a versatile model to study developmental processes and disease. Using fruit fly as a model organism, we studied diverse processes such as, wound healing in wing imaginal discs and stem cell regulation in the male germline and epigenetics. Genome wide expression analysis of wounded imaginal discs, and invivo mapping and transcriptional profiling of male germline helped us uncover potential candidate genes. Significantly upregulated genes in these analysis were functionally assayed by RNAi. The loss-of-function screens unravelled cellular and molecular mechanism involved in imaginal disc repair and novel stem cell factors involved in development and differentiation of the male germline. In this talk, I will discuss in detail about the functional analysis, novel healing and stem cell factors.

Tuesday, Nov 22nd 2022

4:00 PM (Tea/Coffee at 3:45 PM)

Auditorium, TIFR-H